



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Customer: Sovereign Medicinals Inc
4207 SE Woodstock Blvd #507
Portland, Oregon 97206
United States

Product identity: Roasted Hazelnut & Sea Salt Batch 18324

Client/Metric ID: .

Sample Date: 12/03/18

Laboratory ID: 18-011120-0003

Relinquished by: Tait Christensen

Temp: 19.3 °C

Serving Size #1: 17.11 g

Sample Results

Potency per 17.11g		Batch: 1807742					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBC-A per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBC-Total per 17.11g†	< LOQ		mg/17.11g	1.61	12/07/18	J AOAC 2015 V98-6	
CBD per 17.11g	28.9		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBD-A per 17.11g	4.23		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBD-Total per 17.11g	32.6		mg/17.11g	1.61	12/07/18	J AOAC 2015 V98-6	
CBDV per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBDV-A per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBDV-Total per 17.11g†	< LOQ		mg/17.11g	1.60	12/07/18	J AOAC 2015 V98-6	
CBG per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBG-A per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBG-Total per 17.11g†	< LOQ		mg/17.11g	1.61	12/07/18	J AOAC 2015 V98-6	
CBL per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
CBN per 17.11g	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
Δ8-THC per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
Δ9-THC per 17.11g	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
THC-A per 17.11g	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
THC-Total per 17.11g	< LOQ		mg/17.11g	1.61	12/07/18	J AOAC 2015 V98-6	
THCV per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
THCV-A per 17.11g†	< LOQ		mg/17.11g	0.856	12/07/18	J AOAC 2015 V98-6	
THCV-Total per 17.11g†	< LOQ		mg/17.11g	1.60	12/07/18	J AOAC 2015 V98-6	



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

g = Gram

mg/17.11g = Milligram per 17.11g

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Laboratory Quality Control Results

JAOAC2015 V98.6		Batch ID: 1807742							
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDV-A	0.00930		0.01	%	93.0	85 - 115	Acceptable		
CBDV	0.00999		0.01	%	99.9	85 - 115	Acceptable		
CBD-A	0.00911		0.01	%	91.1	85 - 115	Acceptable		
CBG-A	0.00934		0.01	%	93.4	85 - 115	Acceptable		
CBG	0.0105		0.01	%	105	85 - 115	Acceptable		
CBD	0.00936		0.01	%	93.6	85 - 115	Acceptable		
THCV	0.0101		0.01	%	101	85 - 115	Acceptable		
THCVA	0.00921		0.01	%	92.1	85 - 115	Acceptable		
CBN	0.00997		0.01	%	99.7	85 - 115	Acceptable		
THC	0.00984		0.01	%	98.4	85 - 115	Acceptable		
D8THC	0.00989		0.01	%	98.9	85 - 115	Acceptable		
CBL	0.00931		0.01	%	93.1	85 - 115	Acceptable		
CBC	0.0108		0.01	%	108	85 - 115	Acceptable		
THCA	0.00924		0.01	%	92.4	85 - 115	Acceptable		
CBCA	0.00876		0.01	%	87.6	85 - 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits		Evaluation	Notes	
CBDV-A	ND	0.005	%	< 0.005		Acceptable		
CBDV	ND	0.005	%	< 0.005		Acceptable		
CBD-A	ND	0.005	%	< 0.005		Acceptable		
CBG-A	ND	0.005	%	< 0.005		Acceptable		
CBG	ND	0.005	%	< 0.005		Acceptable		
CBD	ND	0.005	%	< 0.005		Acceptable		
THCV	ND	0.005	%	< 0.005		Acceptable		
THCVA	ND	0.005	%	< 0.005		Acceptable		
CBN	ND	0.005	%	< 0.005		Acceptable		
THC	ND	0.005	%	< 0.005		Acceptable		
D8THC	ND	0.005	%	< 0.005		Acceptable		
CBL	ND	0.005	%	< 0.005		Acceptable		
CBC	ND	0.005	%	< 0.005		Acceptable		
THCA	ND	0.005	%	< 0.005		Acceptable		
CBCA	ND	0.005	%	< 0.005		Acceptable		

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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JAOAC2015 V986		Batch ID: 1807742						
Sample Duplicate		Sample ID: 18-011120-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBDV	ND	ND	0.005	%	0	< 20	Acceptable	
CBD-A	0.0316	0.0317	0.005	%	0.316	< 20	Acceptable	
CBG-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBG	ND	ND	0.005	%	0	< 20	Acceptable	
CBD	0.208	0.207	0.005	%	0.482	< 20	Acceptable	
THCV	ND	ND	0.005	%	0	< 20	Acceptable	
THCVA	ND	ND	0.005	%	0	< 20	Acceptable	
CBN	ND	ND	0.005	%	0	< 20	Acceptable	
THC	ND	ND	0.005	%	0	< 20	Acceptable	
D8THC	ND	ND	0.005	%	0	< 20	Acceptable	
CBL	ND	ND	0.005	%	0	< 20	Acceptable	
CBC	ND	ND	0.005	%	0	< 20	Acceptable	
THCA	ND	ND	0.005	%	0	< 20	Acceptable	
CBCA	ND	ND	0.005	%	0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.



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Customer: 4207 SE Woodstock Blvd
#507
Portland, Oregon 97206
United States

Product identity: Combined Bars: Classic Dark 18324, Dark Toasted Quinoa Crunch 18324,
Roasted Hazelnut & Sea Salt 18324
Client/Metric ID: .
Sample Date: 12/03/18
Laboratory ID: 18-011120-0004
Relinquished by: Tait Christensen
Temp: 19.3 °C

Sample Results

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1807749	12/07/18	AOAC 991.14	
Total Coliforms	< LOQ		cfu/g	10	1807749	12/07/18	AOAC 991.14	
Mold	< LOQ		cfu/g	10	1807748	12/09/18	AOAC 997.02 (Petrifilm)	
Yeast	< LOQ		cfu/g	10	1807748	12/09/18	AOAC 997.02 (Petrifilm)	



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Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

cfu/g = Colony forming units per gram

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
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